

Amendments to the Abstract:

ABSTRACT

~~The invention relates to an~~ An apparatus for monitoring a measurement transmitter [(2)] of a field device [(1)] determining and/or monitoring a physical and/or chemical process parameter, wherein at least one sensor [(8)] is provided inside ~~the~~ a housing [(11)], in which the transmitter [(2)] is arranged~~[], which]~~ The sensor determines the temperature and relative humidity in the housing [(11)] over a period of time in predetermined intervals, and ~~wherein~~ a control-/evaluation-unit [(7)] is provided, which, on the basis of the measured temperature and relative humidity, determines the absolute humidity and/or the dewpoint in the housing [(11)] of the transmitter [(2)], and issues and alarm when the absolute humidity and/or the dewpoint in the housing [(11)] of the transmitter [(2)] reaches a critical value.

[(Fig. 1)]